

Voyage Management System VMS VT

Professional Integrated Navigation & Bridge Solutions



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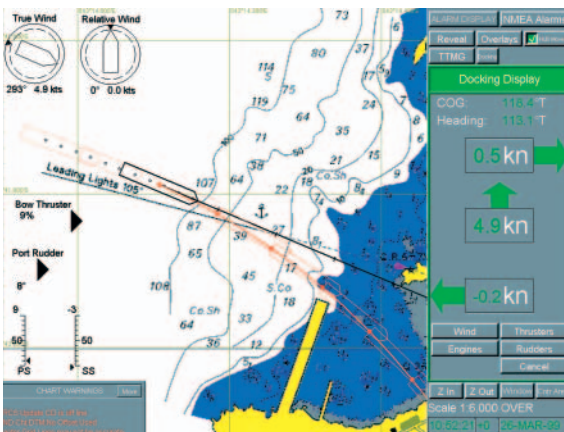


VT NAV-ECS & ECDIS

The VMS VT-NAV is available as an ECS or fully Type Approved (DNV) ECDIS. A Universal Chart Manager reads official Hydrographic Office electronic charts in both the raster and vector formats.

Highlights:

- Stand-alone and integrated navigation configurations
- DNV Type Approved ECDIS
- Universal Chart Manager reads RasterScan & S-57 (DX-90) charts
- Optional Radar video integration
- Configurable as multi-function station
- Hardware and software are fully upgradable

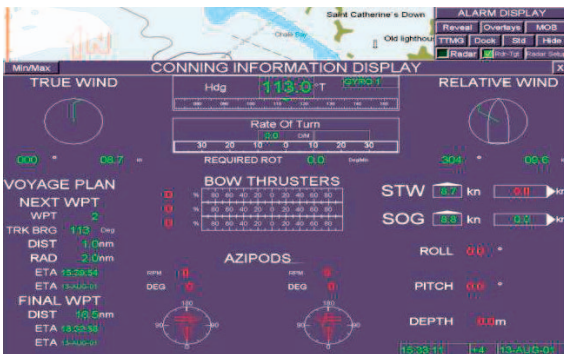


Vessel Advance Prediction

This highly desirable feature offers a graphical future estimate of the vessel's advance at the operator selected time intervals. A call up alphanumeric window provides all necessary advance and maneuvering data for ship handling.

Highlights:

- Multi-sensor approach to advance prediction
- Scaled ownship outline
- Operator selected prediction time intervals
- Fully integrated with ECDIS and optional Automatic Navigation and Track Keeping System (ANTS) module



Conning Information Display (CID)

Central display of navigation, maneuvering, machinery and alarm status. Easy to read screens with large alphanumeric and graphic data.

Highlights:

- Configurable screens
- Interface flexibility
- Stand-alone and integrated navigation configurations
- Configurable as multi-function station or ECDIS back-up



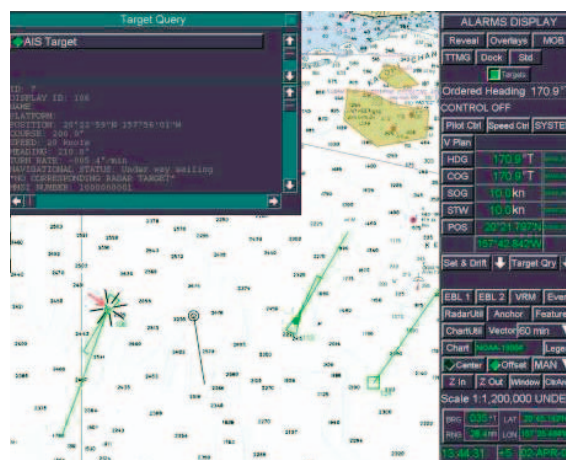
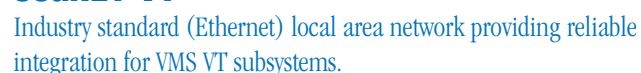
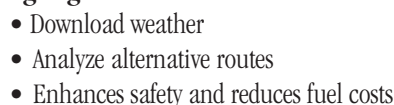
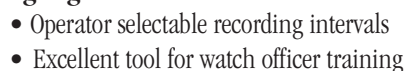
Navigation Planning Station

Independent workstation facilitating chart inventory management, chart corrections and route planning. Optional software modules include weather station, weather routing and voyage optimization (VOSS).

Highlights:

- Configurable as multi-function station - ECDIS back-up
- Network option available for interface to new ECDIS section
- Complete printout functionality
- Optional VOSS module

- DNV Watch One system certification
- Operator selected tracking mode
- Interfaces directly to approved autopilot and speed control systems
- Operates in heading, course and track modes



Voyage Management System - VT - Portfolio of Solutions

Navigation Sensors

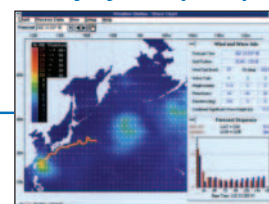


Radar/ARPA
Gyrocompass
Speed Log
Weather Station
EchoSounder
GPS/DGPS

Navigation Planning Station



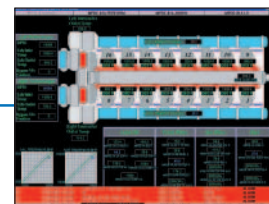
Voyage Optimization Safety System (VOSS)



Autopilot



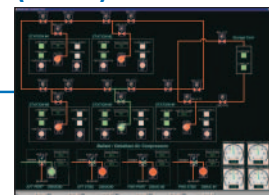
Machinery Automation



Command Information Display



Shipboard Systems (Alarms)



Automatic Identification System (AIS)



i Fleet



Home Office



Voyage Data Recorder



NORTHROP GRUMMAN
Electronic Systems

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